

CLAIMS

1. A high or medium voltage electrical switch with three switching positions and an earthing position comprising a switching element (7) in a closed and sealed enclosure (1) that can be filled with a dielectrically insulating gas, containing a mobile switching element (7) free to move along an axial direction (D) to electrically connect two conducting bars (4, 5) at intervals from each other and also including a fixed earthing contact (6) that will be electrically connected to one of the two conducting bars through the switching element when the switch is in the earthing position, characterised in that the fixed earthing contact (6) is offset from the path of the switching element (7) along the said axial direction, in that the switching element forms a Y with a contact pin (8) such that the contact pin and the fixed earthing contact engage in each other through displacement of the switching element along the said axial direction, and in that a first fixed breaking contact (11) of one of the two conducting bars (4) and a second fixed breaking contact (12) of the second conducting bar (5) are positioned on the same axial direction (D) of a sliding axial part (9) of the electrically conducting switching element (7).

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2. The switch according to claim 1, in which the sliding part of the switching element (7) is composed of a rod (9) that slides along the said axial direction

inside one (4) of the two conducting bars, the contact pin with the rod forming a Y.

3. The switch according to claim 2, in which the
5 rod (9) of the switching element engages in a hollow fixed breaking contact (12) fixed onto the other conducting bar (5).

4. The switch according to claim 1, in which the
10 sliding part of the switching element (7) is composed of a sleeve (9') that slides on one (4) of the two conducting bars along the said axial direction, the contact pin with the sleeve forming a Y.

15 5. The switch according to claim 4, in which the sleeve (9') of the switching element engages on a fixed breaking contact (12') in the form of a mushroom fixed on the other conducting bar (5).

20 6. The switch according to one of claims 1 to 5, in which the fixed earthing contact (6) comprises a conducting part (6'A) with a hollow contact in the form of elastic contact pins and in which the contact pin of the mobile switching element engages.

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7. The switch according to one of claims 1 to 5, in which the fixed earthing contact (6) is a rod and the contact pin of the mobile switching element has a tulip-shaped hollow end into which the fixed earthing
30 contact engages.

8. The switch according to one of claims 1 to 7,
comprising a system (13) with a rotating lever and an
articulated linkage placed in the enclosure to move the
mobile switching element along the said axial
5 direction.

9. The switch according to one of claims 1 to 8,
in which the fixed earthing contact (6') is embedded
partly in a support plate (2) made of an insulating
10 material closing the enclosure.